

University of Hawaii at Manoa
2525 Correa Road
Honolulu, Hawaii 96822

7N-91-CR#
176422 ~~176422~~ P-1

Final Technical Report for NAGW-1604 - Water Regime of Phobos

NASA-CR-193356

Only one year of funding (35K) of the three year contract was actually disbursed to the investigator. Nonetheless, two papers on the water regime of Phobos were published.

1.) Fanale, F.P. and Salvail, J.R. Loss of Water from Phobos, Geophys. Res Lett. 16, 287-290, 1989.

2.) Fanale, F.P. and Salvail, J.R., Evolution of the Water Regime of Phobos, Icarus, 85, 380-396, 1990.

These models predicted the depth to the buried ice interface on Phobos and the current H₂O flux from Phobos as a function of time and latitude. Two plasma investigations on Phobos II in the Phobos tours/wake appear to have confirmed the predicted flux.

Additionally the Infrared Mapping Spectrometer data and Imaging data from Phobos II were processed at the U of Hawaii resulting in a map showing the relationship between composition (mineralogical) heterogeneity and geologic features of the satellite:

3.) Murchie, S.L., Fanale, F.P. et al. Color Heterogeneity of the Surface of Phobos: Relationships to Geologic Features and Comparison to Meteoritic Analogs. J. Geophys Res, in press, 1991.

(NASA-CR-193356) WATER REGIME OF
PHOBOS Final Technical Report
(Hawaii Univ.) 1 p

N93-72609

Unclass

29/91 0176422